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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,942	10/14/2004	JEFFREY A. CLARK	88453-004	5941
31861 7590 04/25/2007 DYKEMA GOSSETT PLLC			EXAMINER	
2723 SOUTH S	STATE STREET		KRAMER, DEAN J	
SUITE 400 ANN ARBOR,	MI 48104		ART UNIT	PAPER NUMBER
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	PHTM	04/25/2007	04/25/2007 PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application	No.	Applicant(s)				
	10/711,942	:	CLARK ET AL.				
Office Action Summary	Examiner		Art Unit				
	Dean J. Kran	ner	3652				
The MAILING DATE of this communication app			orrespondence address				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS 136(a). In no event, will apply and will ex e, cause the applicat	COMMUNICATION however, may a reply be time spire SIX (6) MONTHS from to tion to become ABANDONED	ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status			.*				
1) Responsive to communication(s) filed on 16 M	March 2007.						
	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>8-24</u> is/are allowed.							
6)⊠ Claim(s) 1-7 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers		·					
9) ☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							

DETAILED ACTION

The amendment filed March 16, 2007 and the remarks presented therewith have been carefully considered. However, they are not deemed to be fully persuasive.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-4, 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lovegrove (2,572,640) in view of Pearson (5,387,068).

Lovegrove shows an air-powered vacuum tool comprising a plurality of vacuum ports (14) formed in a body (12) and a plurality of pickup orifices (18) operatively

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connected to certain ports. Lovegrove uses a manual dial valve (38) to selectively provide vacuum to the desired ports (14) rather than using a dedicated generator for each port as is called for in the above claims of the instant application.

However, Pearson shows it old and well known to separately provide an individual vacuum generator (44) for each area of vacuum desired. This provision of multiple generators allows a vacuum force to be selectively created at desired locations along the tool to efficiently handle workpieces of varying shapes and sizes.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a separate vacuum generator for each vacuum port (14) of Lovegrove's tool as taught by Pearson so that only those ports needed for engaging certain sized articles could be automatically actuated thereby saving energy without having to manually turn a dial.

In response to applicant's argument that the Lovegrove patent is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Lovegrove's device is in the same general field of applicant's endeavor, that is a vacuum gripper having multiple ports that are selectively subjected to a vacuum source.

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4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lovegrove in view of Pearson as applied to claims 1-4, 6, and 7 above, and further in view of Conboy (3,933,388).

Conboy shows a suction hoisting tool comprising a venturi-type vacuum generator that can also function to provide positive air pressure to blow off a work piece when positioned at a desired location.

It would have been obvious to a person having ordinary skill in the art to provide a venturi-type blow off valve on the modified Lovegrove assembly, as was presented supra, as taught by Conboy so that a gripped workpiece could be accurately removed at a desired location.

Allowable Subject Matter

5. Claims 8-24 are allowed.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean J. Kramer whose telephone number is (571) 272-6926. The examiner can normally be reached on Mon., Tues., Thurs., Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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